Product Brochure

Huawei OptiXtrans E6608

OptiXtrans E6608

Huawei OptiXtrans E6608 is a highly-integrated all-optical transport platform designed for enterprises. The OptiXtrans E6608 can be widely used in industries such as energy, electric power, transportation, education, and finance that are crucial to national economy and people's livelihood.

Product Highlights

High Reliability: Industry-Leading Optical Slicing Technology – Liquid OTN, Leading Next-Generation Optical Transmission Communication

- Liquid OTN and λ, and multi-level hard pipes, providing physical isolation for key services and meeting high reliability requirements
- Deterministic latency of less than 10 μs, ensuring quick response to service interaction and providing system reliability of 99.999%

High Density: Converged Architecture and Ultra-Large Capacity, Building a Simplified Network

- Up to 700G OTN, 400G packet, and 45G SDH cross-connect capacities per subrack
- 2 U high integration, low typical power consumption, and energy saving, reducing OPEX

Intelligent O&M: Manager+Controller+Analyzer Convergence, Enabling Full-Lifecycle Network Automation

- Network resource visualization and quick service provisioning based on SDN, big data, and AI technologies, improving O&M efficiency by 30%
- Automatic monitoring of network sub-health status and real-time monitoring provided by OD/FD, achieving network health prediction accuracy of 90%

Product Specifications

Item		Description
Dimensions (H x D x W, unit: mm)		88.1 x 220 x 442 (excluding mounting ears)
Weight (empty chassis)		4.9 kg
Installation mode		• 19-inch cabinet • ETSI 300 mm deep cabinet, such as A63B, and N63B
Number of service board slots		DC: 6 AC: 4
Optical-layer cross-connect capacity		1 to 9-degree ROADM
Electrical switching capacity	OTN	700 Gbit/s
	Packet	400 Gbit/s
	TDM	Higher order: 45 Gbit/s; lower order: 5 Gbit/s; port cross-connect capacity: 40Gbit/s **NOTE** Higher order=lower order+port cross-connect capacity
Maximum number of wavelengths	DWDM	80
	CWDM	8
Center wavelength range		DWDM: 1529.16 nm to 1560.61 nm (C band, ITU-T G.694.1) CWDM: 1471 nm to 1611 nm (S+C+L band, ITU-T G.694.2)
Supported service types		SDH/SONET, PDH, OTN, Ethernet, PCM, CPRI, SAN, video, and other services
Maximum rate per channel		200 Gbit/s
Line rate		2.5 Gbit/s, 10 Gbit/s, 100 Gbit/s, and 200 Gbit/s
Supported pluggable optical/electrical modules		• Optical module: SFP/eSFP, XFP, SFP+, QSFP+, TXFP, CFP, CFP2, and QSFP28 • Electrical module: GE SFP
Network topology		Point-to-point, chain, star, ring, ring with chain, intersecting ring, and tangent ring
Network-level protection (OTN)		Client 1+1 protection, intra-board 1+1 protection, ODUk SNCP, optical line protection, tributary SNCP, and LPT
Network-level protection (packet)		Tunnel APS, PW APS/FPS, LPT, LAG, ERPS, and packet SNCP
Network-level protection (TDM)		• SDH protection: SNCP, linear MSP, ring MSP, TPS, E1 SNCP, 64K SNCP, and hitless protection switching • EoS protection: LAG, DLAG, LCAS, LPT, and STP/RSTP
Equipment-level protection		• Backup of cross-connect, system control, and clock units • Power supply backup • Fan redundancy
Optical power management		ALS, OPA, and IPA
Maintenance		• MPLS-TP OAM • ETH OAM • Port mirroring (EoS) • Port traffic mirroring (packet)

Item		Description
		• Loopback • PRBS • LLDP
Easy O&M		Optical Doctor (OD) and Fiber Doctor (FD)
Synchronization		• Physical-layer clock (OTN + Packet + SDH) • IEEE 1588v2 (OTN + Packet) • ITU-T G.8275.1/G.8273.2 (OTN + Packet)
Power supply		DC power input • Standard operating voltage: -48 V to -60 V • Operating voltage range: -40 V to -72 V AC power input • Standard operating voltage: 100 V to 240 V • Operating voltage range: 90 V to 264 V
Equipment operating environment	Subrack temperature	• Long-term: -5°C to +50°C • Short-term[a]: -10°C to +55°C
	Subrack RH	• Long-term: 5% to 85% • Short-term: 5% to 95%
	ETSI standard	ETSI Class 3.1 **NOTE** The ETSI standards define the temperature and humidity environment of the equipment.
a: A short term refers to a maximum of 96 consecutive hours and the total time of short-term operating in a year cannot exceed 15 days.		

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